

CLAIMS

What is claimed is:

1. A lock set installation apparatus comprising:

a pair of hole saw guides for locating holes to receive door operating members of a lock set, at least one hole saw guide of said pair of hole saw guides including a hole saw receiving aperture and each including at least one rail said at least one rail opposing one another;

a bolt lock hole mechanism coupled with said at least one opposing rail, said opposing rails enabling said pair of hole saw guides to move toward and away from one another, said bolt lock mechanism including an aperture for positioning a drill to form a hole for a lock bolt assembly, said bolt lock mechanism including a mechanism for centering said bolt lock mechanism with respect to said pair of hole saw guides during movement of said rails;

a locking mechanism for locking said pair of hole saw guides in position with respect to one another to enable cutting of a door, said locking mechanism coupled with at least one of said rails.

2. The lock set installation apparatus according to Claim 1, wherein each said at least one rail includes a plurality of gear teeth.

3. The lock set installation apparatus according to Claim 2, wherein said bolt lock hole mechanism has a ring gear with a plurality of gear teeth meshing with said gear teeth of said rail for enabling centering of said bolt lock hole mechanism.

4. The lock set installation apparatus according to Claim 1, wherein said locking mechanism comprising a plurality of ratchet teeth on one of said at least one rails and a ratchet arm coupled with said ratchet teeth for positioning said members with respect to one another.

5. The lock set installation apparatus according to Claim 4 further including a latch securing said ratchet arm in position on said rail for locking said hole saw guides with respect to one another.

6. The lock set installation apparatus according to Claim 1, wherein each hole saw guide includes a pair of rails.

7. A door lock set installation kit comprising:

a hole saw;

a drill bit; and

a jig comprising a pair of hole saw guides for locating holes to receive door operating members of a lock set, at least one of said pair of hole saw guides including a hole saw receiving aperture and each including at least one rail said at least one rail opposing one another;

a bolt lock hole mechanism coupled with said at least one opposing rail, said opposing rails enabling said pair of hole saw guides to move toward and away from one another, said bolt lock mechanism including an aperture for positioning a drill to form a hole for a lock bolt assembly, said bolt lock mechanism including a mechanism for centering said bolt lock mechanism with respect to said pair of hole saw guides during movement of said rails;

a locking mechanism for locking said pair of hole saw guides in position with respect to one another to enable cutting of a door, said locking mechanism coupled with at least one of said rails.

8. The door lock set installation kit according to Claim 7, wherein each said at least one rail includes a plurality of gear teeth.

9. The door lock set installation kit according to Claim 8, wherein said lock bolt hole mechanism has a gear ring with a plurality of gear teeth meshing with said gear teeth of said rail for enabling centering of said bolt lock hole mechanism.

10. The door lock set installation kit according to Claim 7, wherein said locking mechanism comprising a plurality of ratchet teeth on one of said at least one rails and a ratchet arm coupled with said ratchet teeth for positioning said hole saw guides with respect to one another.

11. The door lock set installation kit according to Claim 10 further including a latch securing said ratchet arm in position on said rail for locking said hole saw guides with respect to one another.

12. The door lock set installation kit according to Claim 7, wherein each hole saw guide includes a pair of rails.

13. A method for installing a lock set comprising:

positioning a jig having a pair of hole saw guides for locating holes for door operating members of a lock set, at least one of said pair of hole saw guides including a hole saw receiving aperture and each including at least one rail member, said at least one rail member opposing one another on a door; a bolt lock hole mechanism coupled with said at least one opposing rail, said opposing rails enabling said pair of hole saw guides to move toward and away from one another, said bolt lock mechanism including an aperture for positioning a drill to form a hole for a lock bolt assembly, said bolt lock mechanism including a mechanism for centering said bolt lock mechanism with respect to said pair of hole saw guides during movement of said rails; a locking mechanism for locking said pair of hole saw guides in position with respect to one another to enable cutting of a door, said locking mechanism coupled with at least one of said rails;

tightening said jig on said door;

positioning a hole saw in said hole saw guide aperture;

cutting a hole in the door;

positioning a drill bit in said bolt lock hole mechanism;

cutting a hole in said door; and

assembling a lock set assembly in said door holes.

14. The method of Claim 13 further comprising adjusting said bolt lock hole mechanism to clamp said members on said door.

15. The method of Claim 14 further comprising locking said rails with respect to one another.